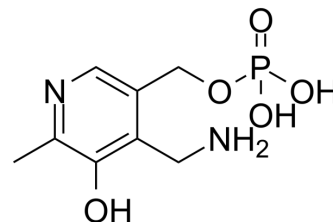


Pyridoxamine 5'-phosphate

Cat. No.:	HY-B1746
CAS No.:	529-96-4
Molecular Formula:	C ₈ H ₁₃ N ₂ O ₅ P
Molecular Weight:	248.17
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (201.47 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		4.0295 mL	20.1475 mL	40.2950 mL
	5 mM		0.8059 mL	4.0295 mL	8.0590 mL
	10 mM		0.4029 mL	2.0147 mL	4.0295 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Pyridoxamine 5'-phosphate is the active form of vitamin B6 bound to phosphoric acid. Pyridoxamine 5'-phosphate is the aminated form of [pyridoxal 5'-phosphate hydrate](#) (HY-W011727A) and as co-factor of a variety of enzymes central metabolite, potent antioxidant, vitamin B6 vitamer and enzyme substrate. Pyridoxamine 5'-phosphate can be interconverted with pyridoxal 5'-phosphate hydrate^[1].

IC₅₀ & Target

Human Endogenous Metabolite

In Vitro

Pyridoxamine 5'-phosphate can be transformed from pyridoxal 5'-phosphate. Purified His-tagged omega-TA CV2025 from Chromobacterium violaceum is capable of complete conversion of pyridoxal 5'-phosphate to pyridoxamine 5'-phosphate in the presence of (S)-α-methylbenzylamine (MBA) as the amine donor.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only.

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